

## Abstract

A system and method for performing rapid control prototyping using a plurality of graphical programs that share a single graphical user interface. A first graphical program may be created that models a product being designed. The first graphical program may be deployed on a target device for execution. A second graphical program that performs a measurement function may be created. The target device may be coupled to a physical system. The first graphical program may be executed on the target device to simulate operation of the product. The second graphical program may be executed to measure characteristics of the operation of the physical system and/or characteristics of the operation of the product. A single graphical user interface comprising a first one or more graphical user interface elements for the first graphical program and a second one or more graphical user interface elements for the second graphical program may be displayed.